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☆ Upgrade Description

As the continuous improvement and development of technology, our company will continuously upgrade the product functions to meet the market demand. Any difference between the purchased product and the Manual is subject to change without prior notice. Any doubt or requirement for the latest product information, please contact with us freely.

☆ Application Scope

This manual is for the E10 fingerprint door lock.

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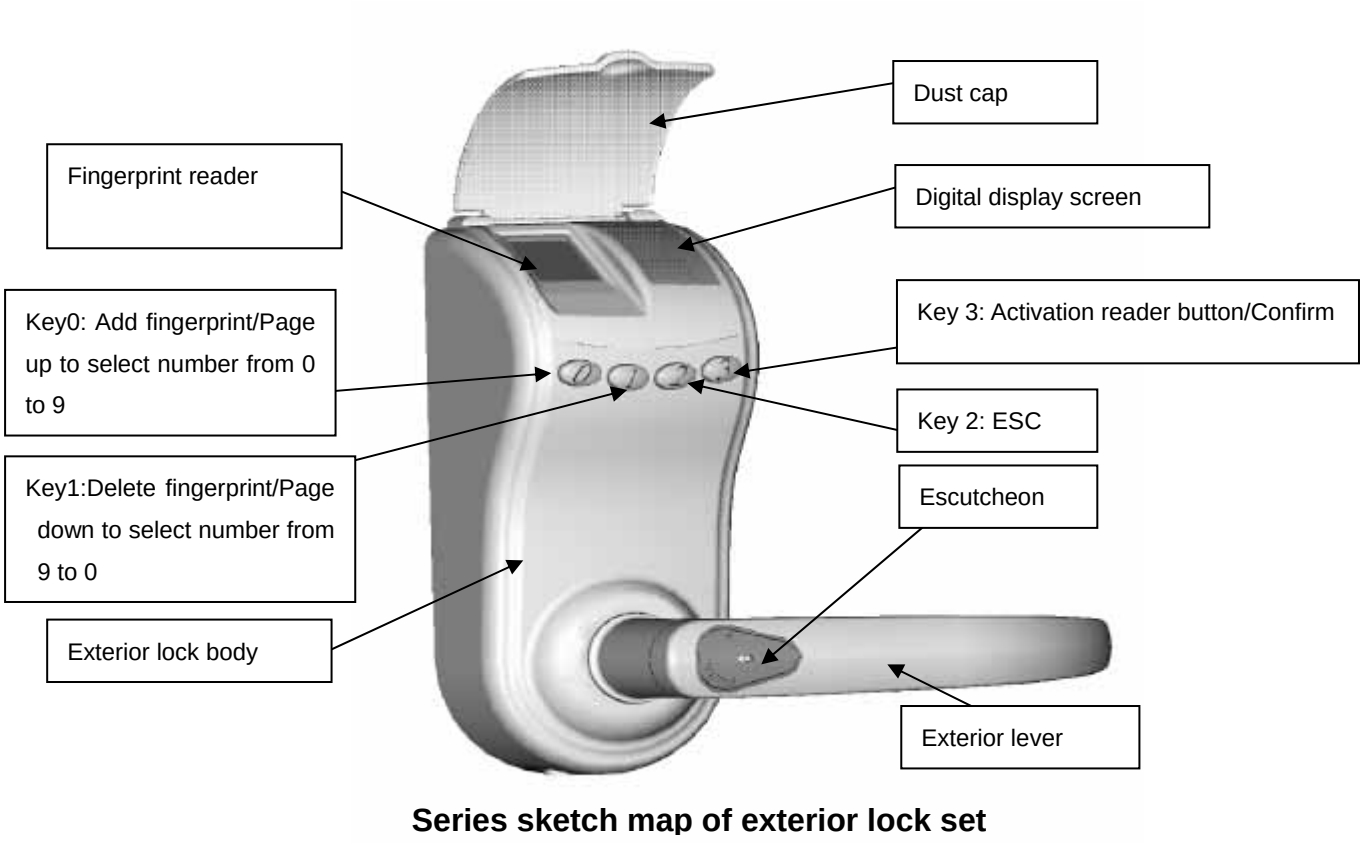
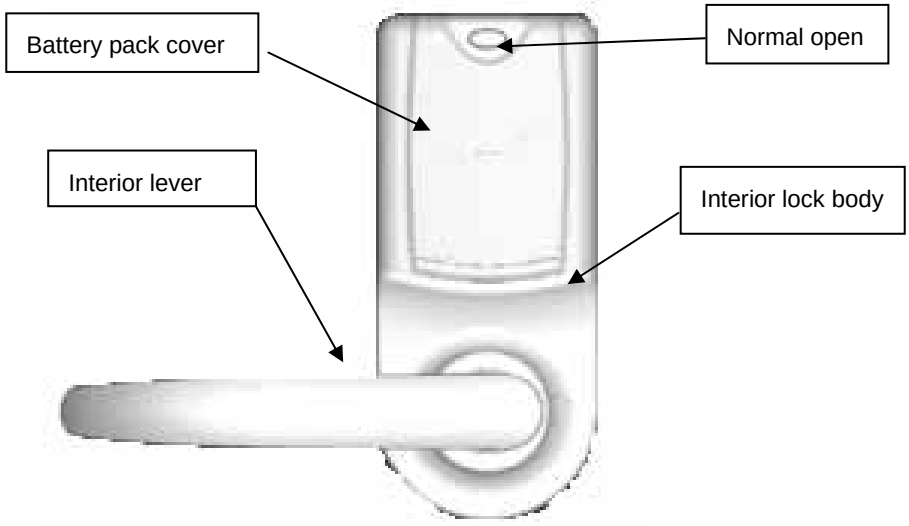
Chapter One Operation

This fingerprint lock can store 100 fingerprint templates, of which No. 00 is the super administrator fingerprint, No. 01 – 09 are administrator fingerprints and No. 10 – 99 are user fingerprints. The super administrator is authorized to add/delete fingerprints of No 01 – 99, and administrators are authorized to add/delete fingerprints of No 10 – 99. There are four keys on the exterior lock face, namely, key 0, 1, 2 and 3 as shown in the following figures.


Dust cap
Fingerprint reader
Digital display screen
Key0: Add fingerprint/Page up to select number from 0 to 9
Key 3: Activation reader button/Confirm
Key 2: ESC
Key1:Delete fingerprint/Page down to select number from 9 to 0
Escutcheon
Exterior lock body
Exterior lever

Series sketch map of exterior lock set



Series sketch map of interior lock set

1.1 Factory default

The fingerprint database is empty but password is 000000. Input this password to unlock the door.

1.2 Registration of super administrator password

1.2.1 Registration of super administrator password: (alteration of super administrator password)

1: Remove any battery, hold down key 0 and then reinstall the removed battery. After a long “Beep”, “0” will appear on the display screen, and the system is in password setting mode.

2: Release key 0, and then press key 0 or 1 again to select the number for the password. Press key 3 to confirm this six-digit password.

3: Function of each key when inputting the administrator password:

a:“0” key, select number from 0 to 9.
b:“1” key, select number from 9 to 0.
c:“2” key, ESC
d:“3” key, confirm the current number

4: The 2-digit numbers on the display when input password: units digit is the password to be entered currently and the tens digit is the password confirmed for the previous time, and key 3 should be pressed after deciding a single digit. After the six available digits are input, there will be a long “Beep” and the green light on the display will be on. And then the six-digit password will be displayed on the screen again. The system will automatically save the password as the administrator password and exit.

5: If another effective six-digit password is input in the same way mentioned above, the former password will be replaced by the latter one.

1.2.2 Registration of super administrator fingerprint (fingerprint No. 00)

1: Remove any battery, hold down key 1 and then reinstall the removed battery. After a long “Beep”, the light on the Fingerprint Reader will be on after a flicker.

2: Release key 1, the system will be in super administrator fingerprint acquisition mode.

3: The super administrator should put a finger on the Reader for fingerprint acquisition (Don’t press any key at this moment). After hearing a long “Beep”, move the finger away, and put the finger on it again after 0.5 second. And there will be a second long “Beep” and the green light will be on, “00” will appear on the display screen. That means the acquisition of super administrator’s fingerprint is successful. The system will automatically save the administrator fingerprint and exit this mode.

4: If another fingerprint is collected in the mentioned way, the system will cover the former fingerprint and save the last one as the super administrator fingerprint.

5: The fingerprint having been set as the super administrator fingerprint can’t be set as administrator fingerprint or user fingerprint anymore.

1.2.3 Add administrator fingerprints by super administrator fingerprint: (the 9

fingerprints from 01 to 09 are administrator fingerprints)

1: Press key 3, the light on the Reader will be on after a flicker, put in the super administrator fingerprint for verification within five seconds.

2: After the successful verification, there will be a long “Beep” and “00”, which stands for the super administrator, will be in the display screen. Meanwhile, the green light will flick.

3: Press key 0 within five seconds and there will be a long “Beep”, and the number “01” will flicker on the display screen (it may also be 02, 03, etc according to the number of fingerprint saved in the lock), and the green light will be on. Press key 3 to confirm the current serial number of fingerprint. The light on the Reader will be on after a flicker, and the system will be in the administrator fingerprint acquisition mode.

4: Put the finger to be registered on the Reader for acquisition. (Don’t press any key at this moment), and there will be a long “Beep” during acquisition, and put the finger on it again after 0.5 second. And there will be a second long “Beep” in one second and the green light will be on, then “01” will appear on the display screen. That means the acquisition of super fingerprint No. 1 is successful. The system will then save the administrator fingerprint automatically and exit the mode.

5: The same fingerprint having been set as administrator fingerprint can’t be set as user fingerprint anymore.

1.3 Add users fingerprints from No. 10 to 99

1.3.1 Add user fingerprint by administrator fingerprint

1: Press key 3, the light on the Reader will be on after a flicker, and verification of administrator will begin within 5 seconds.

2: After successful verification, there will be a long “Beep” and the administrator fingerprint number “01” will flicker on the display screen. The administrator is authorized to add user fingerprints. (If the numbers of administrator is 02 or 03, then 02 or 03 will be displayed on the screen).

3: Press key 0 within five seconds and there will be a long “Beep”, and the number “10” will flicker on the display screen, and the green light will be on. Press key 3 to confirm the current number of fingerprint. The light on the Reader will be on after a flicker, and the system will be in users fingerprint acquisition mode.

4: Put the finger to be registered on the Reader for acquisition. (Don’t press any key at this moment), and there will be a long “Beep” during acquisition, and put the finger on it again after 0.5 second. And there will be a second long “Beep” in one second and the green light will be on, then “10” will appear on the display screen. That means the acquisition of user fingerprint No 10 is successful. The system will then save the user fingerprint automatically and exit the mode.

5: The fingerprint that has been set as the user fingerprint can’t be set as administrator fingerprint anymore.

Notes:①Before confirming the number of fingerprint, you can press key 0 or 1 to choose other fingerprint numbers: any unregistered number between 10 and 99 is available.

②The fingerprint having been set as the administrator fingerprint can’t be set

as user fingerprint anymore. If the fingerprint is found to be registered, the system will promptly exit.

③Users' fingerprint can also be added by the super administrator fingerprint: press key 0 or 1 to select other number: administrator will be added if choosing a number between 01 and 09; and user will be added if choosing a number between 10 and 99.

1.3.2 Add a user of fingerprint with super administrator password

1: Press key 0 or 1 to select the number for the password and press key 3 to confirm, and there will be a long "Beep" and green light will be on after successful verification of the correct 6-digit administrator password.

2: Press 0 within five seconds, and there will be a long "Beep", "02" will flicker on the display screen, the green light will be on, and press key 3 to confirm the fingerprint number to be registered; the red light on the fingerprint Reader will be on after a flicker.

3: The new registrant should put the finger on the Reader in 5 seconds. (Don't press any key at this moment), and there will be a long "Beep" during acquisition, and put the finger on it again after 0.5 second. And there will be the second "Beep" in one second and the green light will be on, then "02" will appear on the display screen. That means the acquisition of administrator fingerprint No. 02 is successful. The system will then save this fingerprint automatically and exit the mode.

4: If the acquisition fails, there will be two short "Beep" and "- -" will appear on the display and the red light as the warning signal will be on. And then the system will exit automatically.

5: Before confirming the fingerprint number, you can press key 0 or 1 to choose other fingerprint numbers: administrator will be added if choosing a number between 01 and 09; and user will be added if choosing a number between 10 and 99.

1.3.3 Regular operation of the lock

1: Press key 3, the light on the Reader will be on after a flicker. The system will be in pre-acquisition mode.

2: Press the registered fingerprint on the Reader within 5 seconds for fingerprint acquisition.

3: After a successful verification, there will be long "Beep", the registration number of the user will appear on the display screen and the green light will be on. Turn the exterior lever to open the door within five seconds.

4: The system will exit after five seconds and be in the mode of locked.

5: If the acquisition fails, there will be two short "Beep", "- -" will appear on the display screen. Meanwhile, the red light as the warning signal will be on.

6: In case the system can't recognize a fingerprint, you can unlock the door with the mechanical key. (Or with the super administrator password)

7: It is suggested that one user register with one finger of each hand to avoid trouble in unlocking the door when accident happens on the hand.

1.3.4 Use of normal open function

1: Enter the normal open mode:

<1> Press key 3, put a registered finger on the Reader, and press the key of

normal open within five seconds after the successful verification. After a long “Beep”, the green light on the display screen will flicker once every 3 seconds. (No verification is needed to unlock the door in normal open mode).

<2>Input the super administrator password and press the key of normal open after verification, the door will be in normal open mode.

2: Exit normal open mode:

<1> Normal open mode can be cancelled by successful verification of a registered fingerprint.

<2> Normal open mode can be cancelled by input and successful verification of the super administrator password.

1.4 Deletion of a fingerprint

1.4.1 Delete an administrator fingerprint

1: Press key 3, the light on the Reader will be on after a flicker and put the super administrator fingerprint for acquisition within 5 seconds.

2: After the successful verification of super administrator fingerprint, a long “Beep” will be heard, and “00”, the fingerprint number stands for super administrator will flicker on the display screen. (The administrator is authorized to delete a user fingerprint.).

3: Press key 1 within five seconds, a long “Beep” will be heard, and the fingerprint number will appear on the display screen: press key 0 or 1 to find the fingerprint number to be deleted. Press key 3 for confirmation to delete it.

4: After successful deletion, a long “Beep” will be heard.

1.4.2 Delete a user with the password

1: Press key 0 or 1 to select the number of password and key 3 to confirm. After successful verification of the 6-digit password, a long “Beep” will be heard and the green light on the display screen will flicker. Press key 1, the green light will be on and the system will be in the mode of deleting a user.

2: At this time, a group of fingerprint numbers will appear on the display screen: press key 0 or 1 to select the fingerprint number to be deleted. Press key 3 for confirmation to delete the fingerprint whose number appears on the display screen.

3: With the super administrator fingerprint and password, one can delete any fingerprint whose number is between 01 and 99.

1.4.3 Delete a user fingerprint with a super administrator fingerprint

1: Press key 3, the light on the Reader will be on after a flicker. Put the administrator fingerprint on the Reader for acquisition within five seconds.

2: After the successful verification of administrator fingerprint, a signal of long “Beep” will be heard and “01”, the fingerprint number for administrator flickers green on the display screen. (The displayed administrator fingerprint number may be 02, 03, etc. according to the registered fingerprint).

3: Press key 1 within five seconds, a long “Beep” will be heard, and the fingerprint number between 10 and 99 will appear on the display screen: press key 0 or 1 to find the fingerprint number to be deleted. Press key 3 for confirmation to delete it.

4: With the administrator fingerprint, one can delete any fingerprint whose number is between 10 and 99.

1.4.4 Delete all fingerprints

All the fingerprints can be deleted by re-registration of the super administrator fingerprint. (Refer to the section “Registration of super administrator fingerprint”)

1.4.5 Modify the administrator password

Repeat to operate the registration of super administrator password.

1.5 Operation instruction for mechanical key

1.5.1 The mechanical key

There are 3 mechanical keys in the accessories of the lock which are also called emergency keys. They are available to unlock the door in case the password and fingerprint fail to.

1.5.2 Unlock the door with a mechanical key

1. Insert the escutcheon key parallel into the hole on escutcheon (see Figure 1-5-0)
2. Rotate the key by 90° clockwise.
3. Pull back the key and remove the escutcheon.
4. Insert the mechanical key into the cylinder hole. See Figure (1-5-1)
5. Rotate the key by 90° (clockwise for right hand door and counterclockwise for left hand door), and now the key is in the horizontal state and the door is unlocked. See Figure (1-5-2)
6. Rotate the exterior lever downward by 50° and open the door.

Figure (1-5-0)

Figure (1-5-1)

Figure (1-5-2)

1.5.3 Lock the door with the mechanical key

1. Rotate the key by 90° (counterclockwise for right hand door and clockwise for left hand door), where the key becomes vertical, pull out the key, and the door is locked.
2. Cover the escutcheon when the mechanical key is not in use.

1.6 Notes for operation

To guarantee the safety of your properties, please set yourself as the administrator and change the factory default password before putting the fingerprint lock into use.

1.6.1 Low battery warnings

During the process of ordinary use, push down key 3 and hear three long "Beep…beep…beep". That means the batteries are running out, please replace the battery timely.

1.6.2 Signals for successful & failure operation

Generally speaking, two long "beep" will be heard and the green light on the display screen will be on after a successful operation. And then the system will be in corresponding mode. While two short "beep" will be heard and the red light as the warning signal on the display screen will be on, and the system will exit the mode.

1.6.3 The difference between super administrator fingerprint and super administrator password

The users' fingerprints will not be deleted by covering the prior password with a new one. All users' fingerprints will be deleted if the prior super administrator fingerprint is covered by a new one. (Except the password)

1.6.4 External emergency power supply

If the batteries are not replaced timely and the power runs out, touch a 9V battery to the two terminals under the lock to provide interim power. See figure (1-6-0).

Figure (1-6-0)

1.6.5 The lock needs 4*1.5V AA alkaline batteries. The positive and negative polarity can't be connected in the wrong position.

1.6.6 During fingerprint acquisition, the finger shall be flat on the Reader.

Chapter Two Installation

2.1Installation instruction

The instruction is applicable to the following model of lock:

Fingerprint Security Door Lock	

2.2 Installation requirements

2.2.1 Left & right hand door

[Consider a person outside the door as the reference]

Left (push) hand door: The person stands outside the door and faces the door. If the hinge is in the left, the door can only be opened by pushing.

Right (push) hand door: The person stands outside the door and faces the door. If the hinge is in the right, the door can only be opened by pushing.

Left (pull) hand door: The person stands outside the door and faces the door. If the hinge is in the left, the door can only be opened by pulling.

Right (pull) hand door: The person stands outside the door and faces the door. If the hinge is in the right, the door can only be opened by pulling.

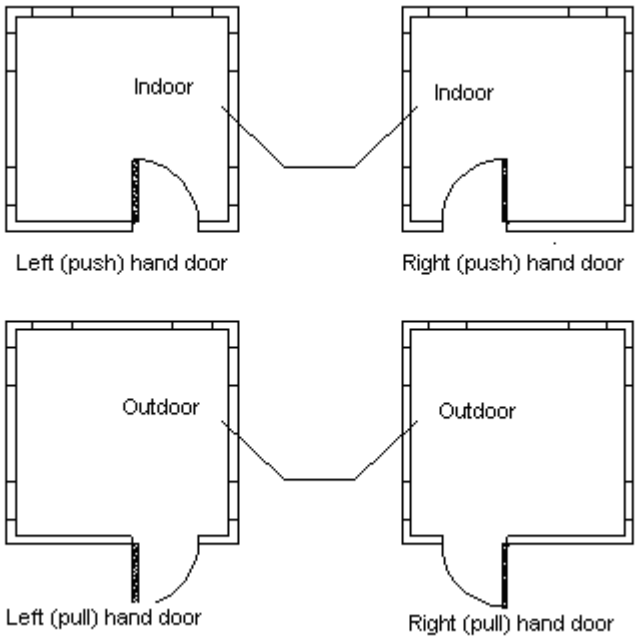


Figure (1) Schematic drawing of the direction of opening doors

As shown in Figure (1), the door locks can be divided into four types accordingly, i.e. left (push) hand door, right (push) hand door, left (pull) hand door and right (pull) hand door. During installation, choose the door lock which is for the open direction of the door, or invite professionals to modify the lock according to the requirement.

2.2.2 Installation conditions

1. Wooden door, fire-proof door (The hole dimensions should be in accordance with the size shown in 2.2.3);

2. Door thickness requirement:

Model	Fingerprint Security Door Lock
Minimum scope	35mm
Maximum scope	80mm

To facilitate the installation, please firstly make sure that whether the thickness of the door meets the above requirements. When the door thickness is below the above requirements, please use the shim plate provided in the accessories.

3. The lever center shall be one meter high above the floor.

2.2.3 Hole dimensions

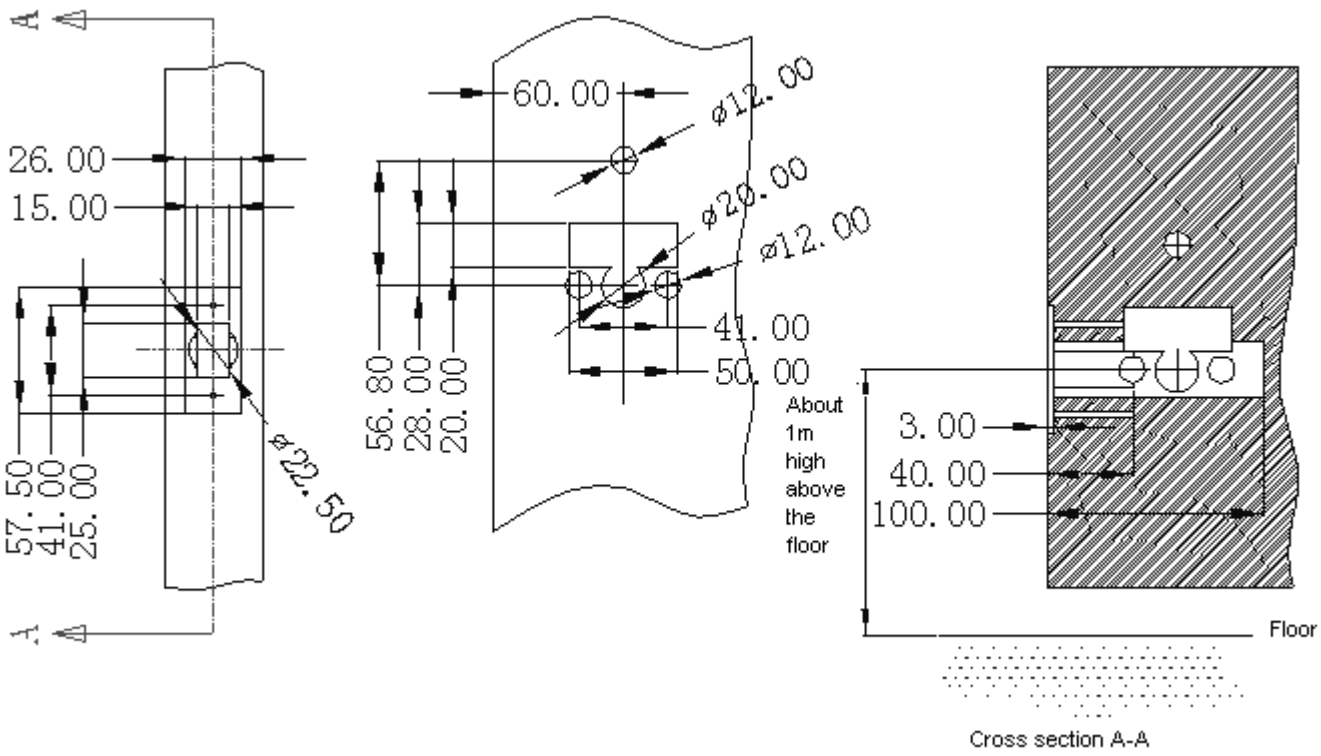


Figure (2) Hole pattern for smart fingerprint lock series (for door)

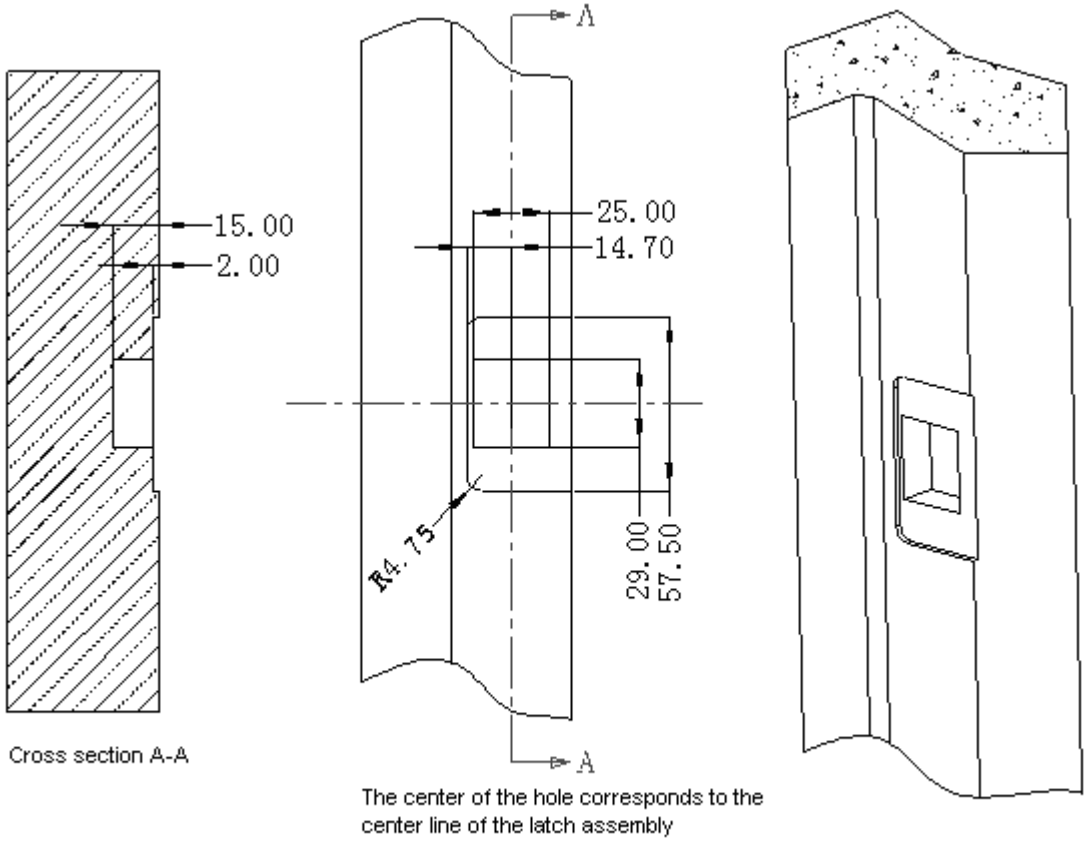


Figure 3 Hole pattern for smart fingerprint lock series (for door frame)

2.3 Tools of installation

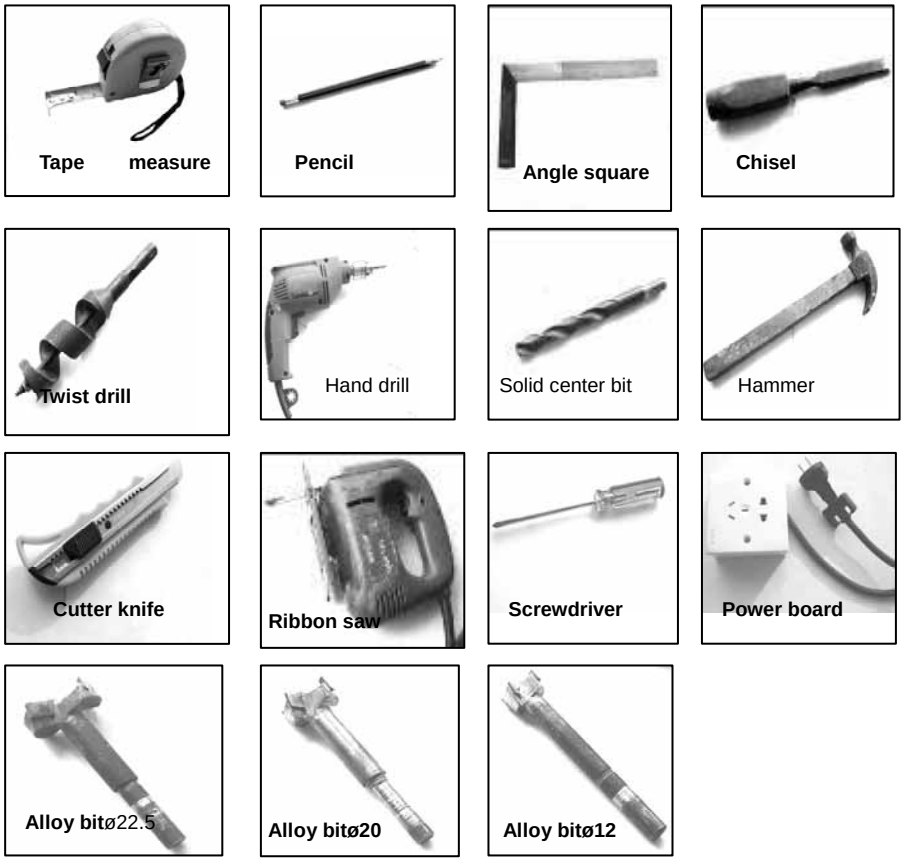


Figure 4 Tools required for door lock installation

2.4 Installation

［the installation procedure takes right (push) hand door as an example］

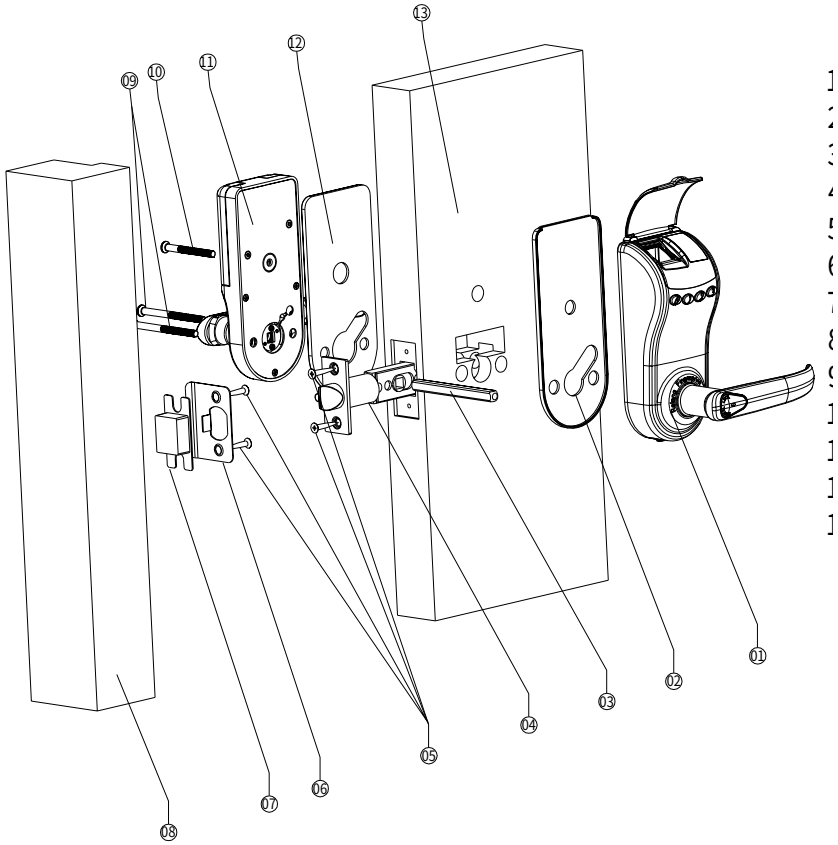


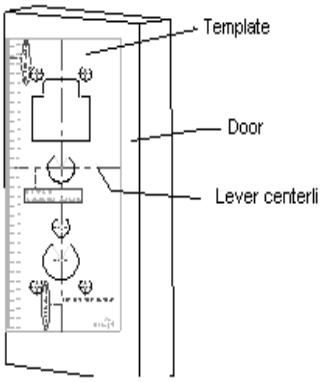
Figure 5 Perspective drawing of the lock

01 Exterior lock body
02 Shim plate of the exterior lock face
03 Spindle
04 Latch assembly
05 Tapping screw (KA ø 4.0x25)
06 Strike plate
07 Strike box
08 Door frame
09 Metric screw (OMø8.5XM5X68)
10 Metric screw (OMø8.5XM5X35)
11 Interior lock body
12 Shim plate of interior lock body
13 Wooden door

2.4.1 Installation procedure

1. Determine the baselines and positions of holes

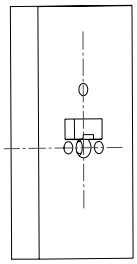
Draw a horizontal line at a certain height (e.g. 100cm) above the bottom of the door as the centerline of door lever. Align the nick of the centerline of lever on the template with the centerline of handle, and align the edge of paper board with door edge. Draw the position line of the hole on both outside and inside of the door (including the outline and centerline of the hole), and extend the lever centerline to side of the door and draw the side-panel and lock set outline (as shown in the following figure).



Fingerprint Security Door Lock

2. Drilling holes

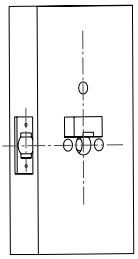
Drill holes from both outside and inside of the door. The drilling depth shall be about half of the door thickness to avoid cracking the door. When drilling the square hole, drill at the centerline with a drill first, and then saw the hole to be square with a curve sawing in accordance with the outline.



Fingerprint Security Door Lock

3. Slotting

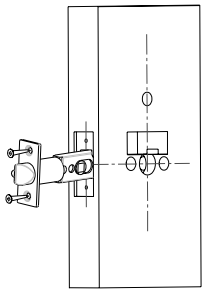
Slot the side-panel tank and latch assembly tank along the door centerline with chisel and drill in accordance with the size drawing in Section 2.2.3.



Fingerprint Security Door Lock

4. Installation of lock cylinder

Insert the latch assembly into the prepared wooden door, and fix it on the wooden door with countersunk head self-tapping screws (KA4x25mm), and ensure the flexibility of latch bolt.



Fingerprint Security Door Lock

5. Install the exterior lock body

①: Install the spindle according to the figure below

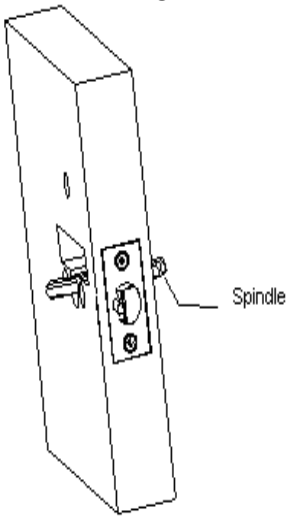
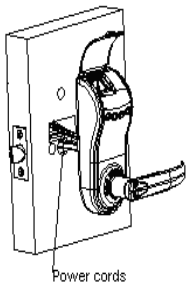
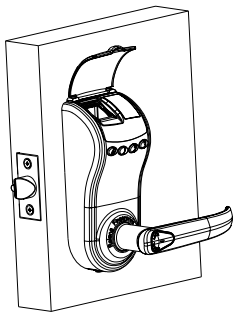


Figure 6 Installation of spindle

②: Pass the power wire on the exterior assembly through square hole (as shown in figure①), then install the exterior lock set on the door (if the thickness of the door is not sufficient, the corresponding plate should be added, as shown in figure ② below)



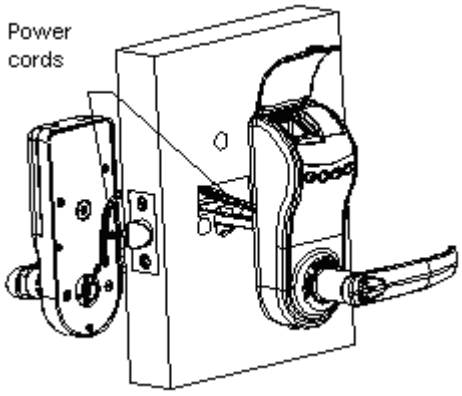
①



②

6. Install the interior lock body.

Remove the battery pack cover and batteries at first, and connect the power wire on the interior lock body with the one on the exterior lock body (as shown in figure ①), then install the interior lock body onto the door (as shown in figure②, if the thickness of the door is not sufficient, the corresponding shim plate should be added)



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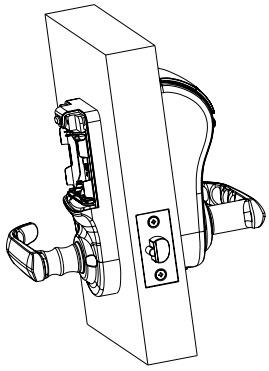


②

7. Fix the exterior and interior lock bodies

First, insert the screws into the corresponding holes, as shown in the following figure ①. Second, tighten the screws with a cross screwdriver (keeping the exterior and interior lock bodies a little loose); then, set up the exterior and interior lock bodies(keeping the exterior and interior lock bodies to be symmetric, the lock side shall be parallel with the door side, and the handle and latch bolt can move freely); after setting up the exterior and interior lock bodies and tighten the screws (keeping the exterior and interior lock bodies tightened); finally, install the batteries and interior battery pack cover to the interior lock body.

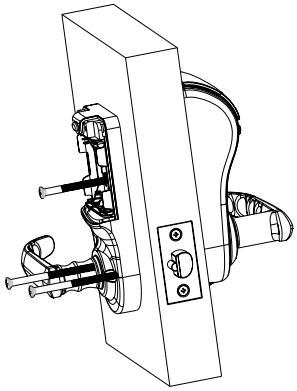
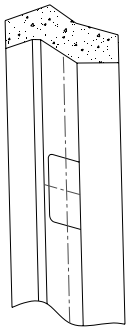


Figure ①

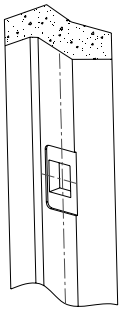
8. Determine the holes' positions for door strike box and door strike plate

Put the door close to the door frame and draw the handle centerline on the door frame, and draw the frames of door strike box and door strike plate in accordance with the hole dimension on figure 2.2.3.



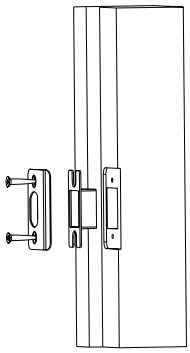
9. Drilling holes for door strike box and door strike plate

Drilling holes for door strike box and door strike plate according to the specified dimension and trim with a chisel.



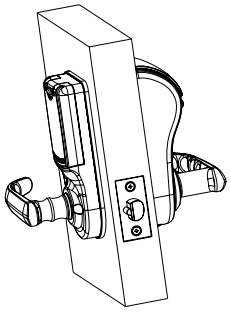
10. Install the door strike box and door strike plate

Insert the door strike box and door strike plate into the door frame, and tighten them with KA4x25 countersunk head tapping screws.



11. Test the door lock

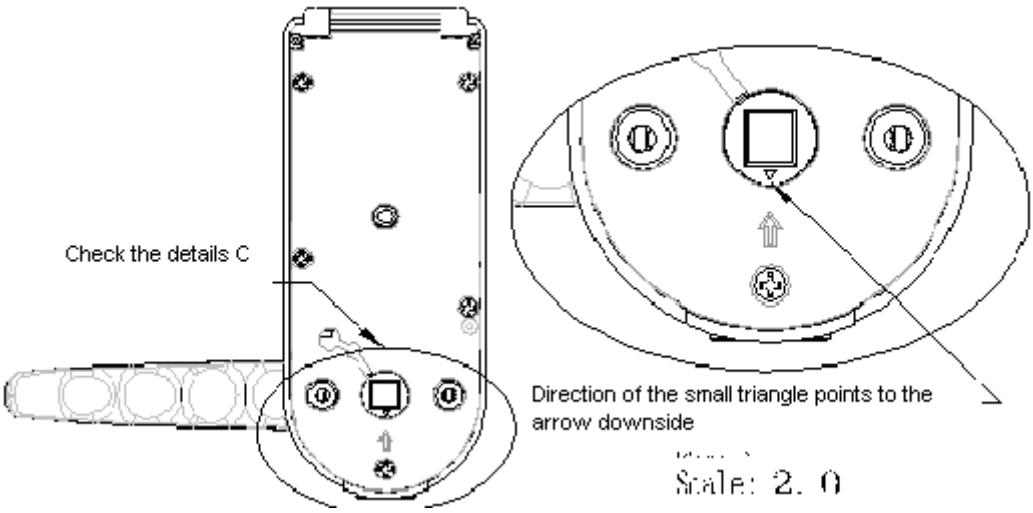
Test the door lock according to the contents in Chapter One.



Fingerprint Security Door Lock

2.4.2 Notes for installation

1. Examine whether the thickness of the door can meet the thickness limit before installation. If the door is not thick enough, please use the shim plate provided in the accessories.
2. During installation, please handle the door lock carefully to avoid scratching the surface and damaging the cords;
3. Before the installation of front lock body, please check if the convex column at the back is in the state corresponding to that in the figure below;



Fingerprint Security Door Lock

4. When tightening the M5 screw below the back lever, please turn the lever to the open state and then tighten the screw;
5. When tightening the exterior and interior lock bodies, do not press the internal connection wires.

2.5 Attention

☆ Standard 1.5V alkaline batteries are required for fingerprint door lock. Acid battery is not suggested as it can corrode the door lock.

☆ The fingerprint door lock should be installed after the indoor decoration to avoid pollution and damage of the lock.

☆ Install the door closer and door stopper before installing the door lock to avoid the damage of levers as well as dead bolt.

☆ Protect the lever with protective casing before being put to use.

☆ Illegal operation is prohibited to avoid damage of the communication contacts.

Chapter Three Exception Handling

☆ Battery replacement

Please replace the batteries timely after the low battery warning.

☆ Mechanical keys

If the door can’t be unlocked because of the damage of PCB, the mechanical key is available to unlock the door.

Chapter Four Maintenance

☆ Lock surface cleaning

To keep the lock surface smooth, please clean the lock surface with soft, clean and dry cloth regularly. But water, alcohol or other chemicals are not suggested to avoid damage or corrosion of the lock surface.

☆ Add lubricants into the latch assembly

If the lock can not work flexibly and normally or can not maintain correct position, professionals should be invited to add some mechanical lubricants to the latch assembly.

☆ Replace the lock face and lever

If the lock face and lever have been scratched, new ones can be purchased from our company.

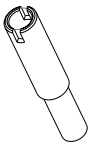
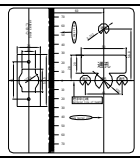
Appendix 1: Packing List

No	Name	Quantity	Unit	Remarks
1	Exterior lock body	1	set	
2	Interior lock body	1	set	
3	Latch bolt	1	set	
4	Strike box	1	pc	
5	Strike plate	1	pc	
6	Exterior and interior shim plates	2	sheet	Optional
7	AA batteries	4	pcs	
8	Countersunk head tapping screw KA4x25	4	pcs	Used for fixing latch bolt and strike plate
9	Mounting bolt	2	pcs	L=28mm
10	Cross recessed raised countersunk head screws	3	pcs	OM5x32mm(for the door thickness between 35 and 40mm)
				OM5x42mm(for the door thickness between 40 and 50mm)
				OM5x52mm(for the door thickness between 50 and 60mm)
11	Spindle	1	bar	
12	Mechanical keys	3	pcs	
13	Keys for the escutcheon	1	pc	
14	Template	1	sheet	
15	User’s manual	1	pc	

16	Quality certificate	1	pc	
17	Warranty card	1	pc	

Appendix 2: Accessories

Product accessories are the products-related parts necessary for the use of the product.

Latch assembly	Strike box	Strike plate	Mechanical Key
			
Key for escutcheon	Countersunk head tapping screw	Mounting bolt	Cross recessed raised countersunk head screws
			
Spindle	AA batteries	Shim plate	Template

Appendix 3: Warranty Card

After-Sale Services

1. Our company offer free service for one year. The warranty period free of charge is within one year from the date of purchase.
2. If any of the following situations, which are out of the scope of warranty, appears during the warranty period, the maintenance shall be charged.

(1) The warranty period is expired or the products are purchased through informal channels

(2) Damages due to improper use, self-demolition, manmade damage or force majeure and other accidental factors.

(3) Door locks that have been repaired at non-appointed maintenance points.

3. We offer lifelong maintenance, but cost will be charged for the maintenance exceeding the one-year period.